



IANA Status Report

Leo Vegoda, ICANN

leo.vegoda@icann.org

IANA Numbers Liaison

IANA Functions



- Resource management
 - IPv4, IPv6 and ASN Registries (in cooperation with the RIRs)
 - Protocol parameter registries (in cooperation with IETF/IESG/IAB)
 - Internet Drafts and RFC standards process
 - Identifier registry creation and maintenance
 - Ports and Personal Enterprise Numbers (PENs) assignments
 - Maintain .ARPA and .INT domain registrations and registries
 - Root zone management
 - Maintain Top Level Domain registration and zone delegation information
 - Validate and process TLD change requests
 - Verify minimal proper DNS server requirements
 - Maintain public “Whois” and internal delegation process/procedure information for TLDs.

IANA Structure



David Conrad
General Manager

Barbara Roseman
Operations Manager

Michelle Cotton
IETF Liaison

Kim Davies
Names Liaison

Leo Vegoda
Numbers Liaison

Simon Raveh
Development Manager

Yoshiko Chong
Project Specialist

Naela Sarras
Project Specialist

Pearl Liang
Project Specialist

Amanda Baber
IANA Project Assistant

Various
Contractors

Current Projects



- Registries
 - IPv4 registry review
 - RFC inventory - registry creation check
 - XML data structure for all registries to an
 - Whois service for IP address registries
- Administrative
 - Documentation management
 - IANA web site redesign
 - Automated report generation
- IANA Process Improvements
 - Delegation in ip6.arpa and in-addr.arpa
 - DNSSEC for all IANA managed zones
 - DNS checking tool
 - “eIANA” self-service for ccTLDs
 - PEN allocation automation

Web stuff



Private Enterprise Number (PEN) Application Form

<http://pen.iana.org/PenApplication.page>

[Request Private Enterprise Number \(PEN\)](#) | [Modify Private Enterprise Number \(PEN\)](#) | [Enterprise Numbers](#) | [Contact IANA](#) | [IANA](#)

Private Enterprise Number (PEN) Request Template

To request a Private Enterprise Number (PEN), typically used in Simple Network Management Protocol Management Information Base configurations, please complete the application provided [below](#). The required fields are marked with an asterisk (*). Please be aware that the contents of the required fields will be made publicly available along with the assigned PEN in the [IANA PEN Registry](#).

There is no fee for obtaining a PEN assignment. Please allow up to 30 days for processing your application.

Usually, a single PEN is granted per organization. If you are unsure whether your organization has already obtained a PEN, please check the [IANA PEN Registry](#). If your organization has already registered a PEN, please obtain a sub-assignment of that PEN from the registered contact in the PEN Registry.

NOTE: We will send an e-mail to Contact E-Mail requesting confirmation of the information you have submitted. You must respond to this e-mail to continue processing your PEN request. Failure to respond to the confirmation e-mail will result in your application being discarded after one calendar week.

- For further information regarding Private Enterprise Numbers, please see the following:
- [NETWORK MANAGEMENT PARAMETERS](#)
 - [RFC 1157](#), "A Simple Network Management Protocol (SNMP)"
 - [RFC 1213](#), "Management Information Base for Network Management of TCP/IP-based internets: MIB-II"
 - Notes regarding the PEN Application Form can be found [here](#). If you have any questions regarding PENs or the PEN Application Form please contact iana-pen@iana.org.

Organization

Organization Name: *

Organization Address:

Organization Phone:

Contact

Contact Name: *

Contact Address:

Contact Phone:

Contact Fax:

IANA - Home Page

<http://test.icann.org/index.shtml>

Welcome.

The Internet Assigned Numbers Authority

The Internet Assigned Numbers Authority (IANA) is responsible for the global coordination of the DNS Root, IP Addressing, and other Internet Protocol Resources. Our site is organized into three primary navigational tracks:

Domain Names

IANA manages the DNS Root Zone (assignments of ccTLDs and gTLDs), as well as the .int registry, and the arpa zone.

- Root Zone Management
- .int Registry
- arpa Registry
- IDN Practices Repository

Number Resources

IANA coordinates the global IP and AS number space, and allocates these to Regional Internet Registries.

- IP Address Allocation
- AS Number Allocation
- Do you think you are getting attacked by us?

Protocol Assignments

IANA maintains the central repository for protocol assignment registries used in many internet protocols.

- Protocol Registry
- Apply for assignment

Search The Site

Enter a domain name, IP Address, RFC Number or keywords to quickly find the relevant information on the IANA site.

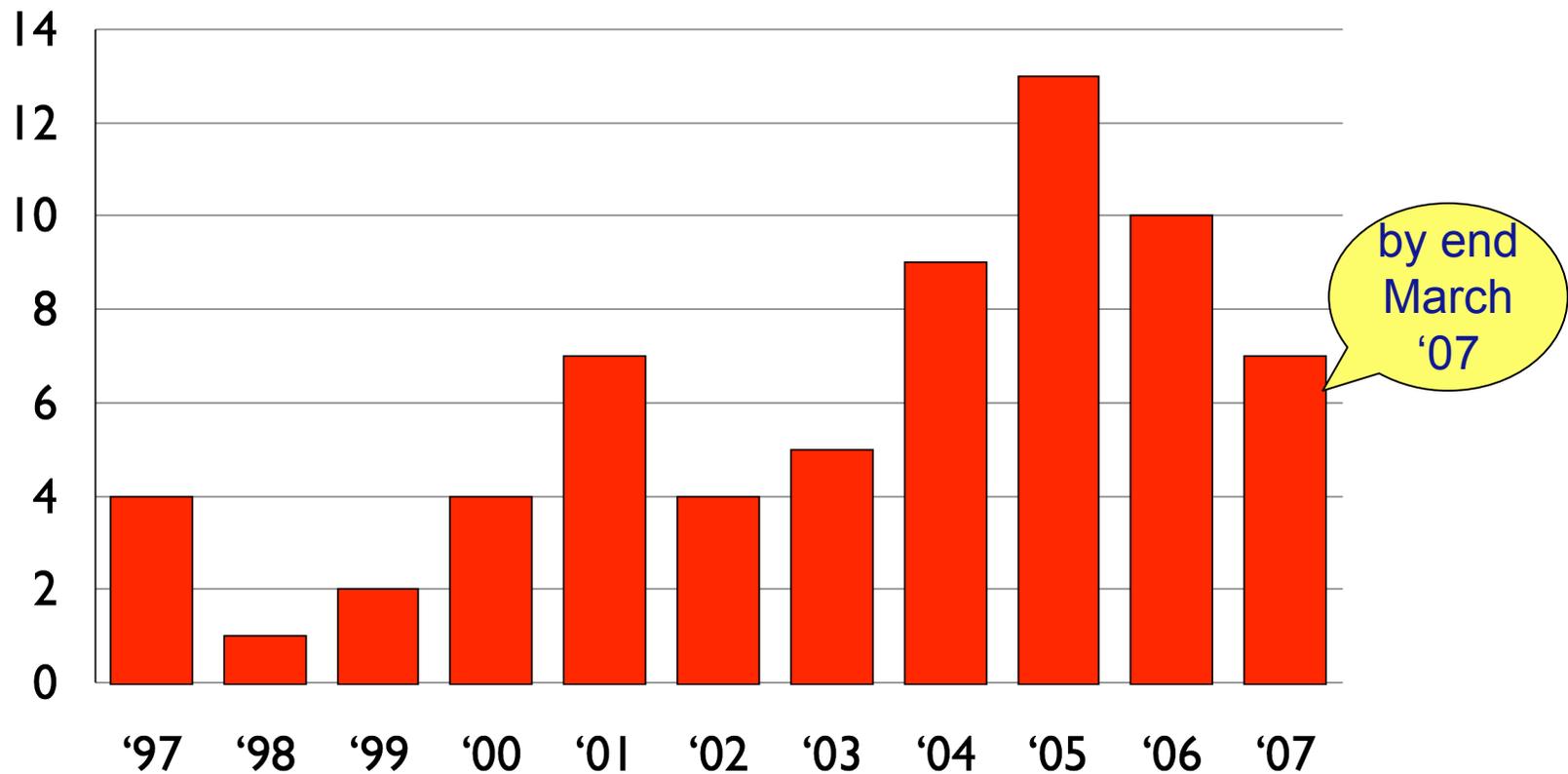
[About](#) - [Jobs](#) - [Contact Us](#) - [Announcements](#)

The Internet Assigned Numbers Authority (IANA) is an operating unit of ICANN - [Contact us](#)

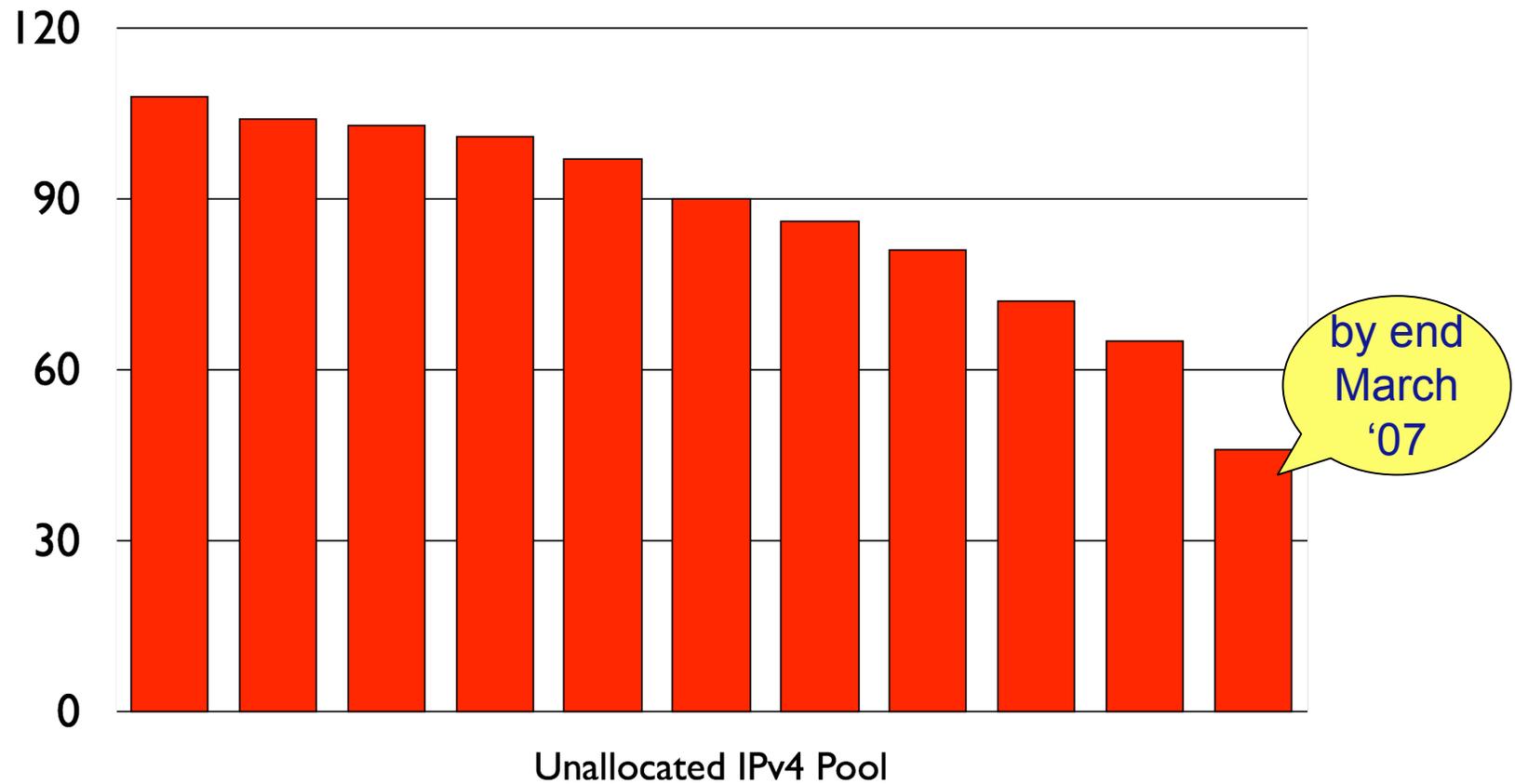
IPv4 - Not quite empty



IPv4 Allocation Trend - All RIRs



Watch it shrink



Near-Term Future Activities



- Signing .ARPA
 - Talking with IAB about how to move forward
- IANA Process Automation
 - DNSSEC
 - Port allocation
- “Customer Satisfaction Survey”

On the Horizon Activities



- “IANA Certificate Authority”
- Improved authentication mechanisms
- Root Zone Management via EPP
- Registry availability programmatically via...
 - BEEP? XML-RPC? SOAP?
 - What is useful to network operators?
- IANA Infrastructure improvements

IDN

- News slide





Summary

- We allocate and maintain registries for a variety of resources, including protocol parameters, IP addresses, and domain names
- We have added staff and are improving services as quickly as possible
- We're pretty busy now
- We're going to be pretty busy for a while
- **Suggestions for improvement are welcome!**

Questions



3 April 2007

UKNOF 7 -- Manchester, England